BRUHATH BANGALORE MAHANAGARA PALIKE

Name of work: Improvements of roads from amruthalli main road to hottappa layout in in ward No. 07-Byatarayanapura, Kodigehalli Sub Division.

SL NO	Description of work	Unit	No.	Dimensions			Qty	Rate	Amount
				L	B	D			
1	2	9	3	4	5	6	7	8	10
1	KSRB M300-2:Earth work excavation by manual means in ordinary soil involving and average lift up to 0.5m excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatlyy after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3.	Cum							
	Main road Drain		1	219.00	1.00	0.90	197.10		
	Widening portion		2	219.00	1.00	0.60	262.80		
	For Culvert		7	5.00	1.80	1.20	75.60		
			1	220.00	7.00	0.60	924.00		
	Total Qty					Total:-	**1459.50**	TP	
	Qty upto 125%						**1054.00**	75.60	**79683.00**
	Qty Above 125%						**405.50**	79.19	**32113.00**
	PWD SR 2015-16 Basic rate	77.00							
	Add A.W. 8%	6.16							
	Total	**83.16**							
	Tender Premium @ -4.77%	**3.97**							
		79.19							
2	KSRRB M300-52.1, Scarifying the existing granular road surface to a depth of 50mm and disposal of scarifeid material within all lifts and leads upto 1000mtrs complete as per specifications, MORTH, Spcification No. 305.4.3 (P-144, Item No. 19.58 SR 2014-15)	Sqm							
	Main road		1	219.00	7.00		1533.00	TP	
						Total:-	**1533.00**	18.36	**28146.00**
3	KSRRB M300-58, Comapaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications, (P-145, Item No. 19.64) SR 2014-15)	Sqm							
	Main road		1	219.00	7.00		1533.00	TP	
						Total:-	**1533.00**	4.48	**6868.00**

SL NO	Description of work	Unit	No.	Dimensions			Qty	Rate	Amount
				L	B	D			
1	2	9	3	4	5	6	7	8	10
4	**KSRB 4-1.3:** Providing and laying in position plain cement concrete of nominal mix 1:4:8 using **40mm** and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . (Pg.No.12, It.4.3)	Cum							
	Main road Drain		1	219	1.00	0.15	32.85		
	culerts bottom		7	5	1.8	0.15	9.45	TP	
							42.30	5064.12	**214213.00**
5	**KSRB 4-6.4:** Providing and removing centering, shuttering strutting, propping etc., and removal of form work for **vertical surface** such as walls at any thickness including attached pilasters, buttressed, plinth and string courses cost of all materials, labour complete as per specifications (Page no.14, Item No. 4.31)	Sqm							
	Drains Side walls : Main road drain		4	219.00	0.75		657.00		
	Culvert- Side Wall		7x4	5.00	0.75		105.00		
			7	5.00	1.35				
			7x2	5.00		0.23	16.10		
			7x2	1.80		0.23	5.80	TP	
							783.90	236.52	**185408.00**
6	Providing and laying cement concrete using 20mm ad down size granite jelly of ready mix concrete for RCC works laid in 15cms thick layers and well comapcted including vibrating curing etc., including smooth finish in CM 1:3 with all lead and lift etc., complete.(Exclusive of cost of steel, fabrication and plastering charges) Ready mixed cemet concrete for beams, coloumns, staircase and roof with M-20 (1:1.5:3) CEMENT 3320 kG/CUM) (P.18, Ino-4.49.1) SR-2014-15	Cum							
	Main road Drain- bottom		1	219.00	0.90	0.15	29.57		
	Side walls		2	219.00	0.15	0.75	49.28		
	Culverts-bottom		7	5.00	1.80	0.15	9.45		
	Side walls		14	5.00	0.23	0.75	12.08		
	culevrt covering slabs		7	5.00	1.80	0.23	14.49		
							114.86	5700.00	**654674.00**

SL NO	Description of work	Unit	No.	Dimensions			Qty	Rate	Amount
				L	B	D			
1	2	9	3	4	5	6	7	8	10
7	**SRB 4-.9-2:**Providing and fabricating TMT . Steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking,placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design(laps and wasteage shall not measured and paid) cost of materials. labour. HOM of machinery complete as per specifications . (Page NO 17, Itm. NO. 4.46.2)	tonne							
	Qty @ 65Kg/cum		drain	0.0650	X	78.84	5.12		
	Qty @ 100Kg/cum		culvert	0.1000	X	36.02	3.60		
						Total:-	**8.73**	77000.00	**671910.00**
8	KSSRB M 400-17: Providing laying, spreading and compacting graded fine aggregate to wet mix macadam specificationns including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surfce and compating with vibratory roller to achieve the desired density complete as per specifications. MORTH specifications no. 406(P-157., It No: 20.18)	Cum							
	Main road		1.00	219.00	7.00	0.25	383.25		
	For widened Portion		2.00	219.00	1.00	0.25	109.50		
	Total Qty					Total:-	**492.75**	TP	
	Qty upto 125%						**480.50**	1023.00	**491552.00**
	Qty Above 125%						**12.25**	1632.20	**19995.00**
	PWD SR 2015-16 Basic rate	1587.00							
	Add A.W. 8%	126.96							
	Total	**1713.96**							
	Tender Premium @ -4.77%	**81.76**							
		1632.20							
9	KSRRB 500-10: Providing and applying Primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and sparaying primer at the rate 0f 0.60 Kg/sqm using mechanical means complete as per specifications. (Pg No. 157. Item No. 20.18)14-15	cum							
	Main road		1.00	219.00	7.00		1533.00	TP	
						Total	**1533.00**	31.32	**48014.00**

SL NO	Description of work	Unit	No.	Dimensions			Qty	Rate	Amount
				L	B	D			
1	2	9	3	4	5	6	7	8	10
10	KSRRB 500-18: Providing and laying graded bituminous macadam using crushed aggregates of specified grading premixed with VG 30 GRADE BITUMINIOUS BINDER AND TRANSPORTING THE HOT MIX TO WORK SITE, LAYING TH THE REQUIRD GRADE, Level and alignement, rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per morth table 500-10 complete in all repsects complate as per specfications-do-using 40/60 TPH capacity H.M.P with sensor paver Gr-11(50mm to 75mm) with 4% vg-30 bitumen .(P159, It No: 21.17.4)	cum							
	Main road		1.00	219.00	7.00	0.05	76.65	TP	
						Total	**76.65**	7914.24	**606627.00**
11	KSRRB 500-10: Tack coat: Providing and applying tack coat using 80/100 grade bitumen (VG10) IN BOILER FITTED WITH SPRAY SET DISTRIBUTOR AT THE RTAE OF 0.2 kG PER SQM ON EXISTING PREPARED BITUMENOUS SURFACE CLEANED WITH MECHANICAL BROOM complete as per specification. (Pg No. 158., 20.10.2)	cum							
	Main road		1.00	219.00	7.00		1533.00	TP	
						Total	**1533.00**	11.88	**18213.00**
12	KSRRB M500-19: Providing and laying bituminous concrete using crushed aggregate of spacfying grading, premixed with bituminous binder and filler, transporting the hotmix to work site, laying with paver finisher to the required grade, level and alignment, rolling with the smooth wheeled vibrator and tadem rollers to achieve the desired compaction as per MORTH specification clause no 509 complete in all repsects complete as per specfications do using 40/60 TPH capacity H.M.P with sensor paver Gr-1 (50mm to 60mm) with 5.5 % CRMB (P.161, inO. 21.23.3)	cum							
	Main road		1.00	219.00	7.00	0.04	61.32	TP	
						Total	**61.32**	9483.48	**581527.00**

SL NO	Description of work	Unit	No.	Dimensions			Qty	Rate	Amount
				L	B	D			
1	2	9	3	4	5	6	7	8	10
13	KSRRB M800-13: Providing and laying of hot applied thermoplastic copmound 2.5mm thick including reflectorsing glass beeds at 250 gms per sqm area thickness of 2.5mm is exclusive of surface applied galss beads as per IRC:35. The finished surface to be level, uniform and free sreaks and holes complete as per specifications MORTH Specifications No.803 including cost of materials, labour complete as per specifications.(P-193, I No: 24.15)	cum							
	Main road		2.00	219.00	0.10		43.80		
						Total	**43.80**	475.20	**20814.00**
14	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)	Cum							
	Total Qty						1430.31	TP	
	Qty upto 125%						1054.00	68.40	**72094.00**
	Qty Above 125%						376.31	90.30	**33980.00**
	Basic rate		=	62.20					
	Conveying charges for 10Kms								
	Rs. 2.00 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.00X1.28TonneX10Km		=	25.60					
	Total		=	87.80					
	Add Area Weightage 8%		=	7.02					
				94.82					
	Tender Premium @ -4.77%			4.52					
				90.30					
	Total								**3765831.00**

Certificate:-

1)This is certified that the work spot comes under BBMP limits only.

2)The rates are as per CSR of 2014-15, 2015-16 +/- Tender Premium.

3)The Provisions made in estimate are adequate and necessary.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

"Modified Estimate Sanctioned"
Chief Engineer
Yelahanka Zone
Bruhath Bangalore Mahanagara
Palike
Bangalore